

**Notice of Allowability**

Application No.

10/816,250

Applicant(s)

NEESE ET AL.

Examiner

Art Unit

K. Feggins

2861

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-35.
3. ☒ The drawings filed on 01 April 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 4/1/2004
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

*K. Feggins*  
*Primary Examiner*  
*10/04*

### **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance: The primary reason for allowance of claims 1-17 is the inclusion of a method steps for bi-directional color inkjet printing that includes supporting all of the plurality of color inkjet printheads on the printer carriage so as to form only two rows of printheads such that two or more respective printheads for printing a first primary color and a respective printhead for printing black are positioned in a row directed along the print swath axis and form one row of printheads; and wherein nozzle arrays associated with the printheads for printing the first primary color and a nozzle array of the printhead for printing black do not overlap in the direction of the swath axis direction with nozzle arrays associated with the printheads for printing the second primary color and a nozzle array of the printhead for printing yellow; and wherein the first primary color and the second primary color are of different primary colors and different in color from yellow and black. It is these steps found in the claim, as it is claimed in the combination of that has not been found, taught or suggested by the prior art of record, which makes these claims allowable over the prior art.

The primary reason for allowance of claims 18-35 is the inclusion of the limitations of a color inkjet printer that includes the nozzle arrays of printheads for printing the first primary color and respective nozzle array of the printhead for printing black do not overlap in the direction along the print swath axis with the nozzle arrays of printheads for printing the second primary color and the nozzle array of the printhead for printing yellow and wherein the printheads for printing the first primary color include ink

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of the first primary color and the printheads for printing the second primary color include ink of the second primary color and wherein the first primary color and second primary color are different in color from yellow and black. It is these limitations found in the claim, as it is claimed in the combination of that has not been found, taught or suggested by the prior art of record, which makes these claims allowable over the prior art.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Danzuka (US 6,698,856 B2) discloses a number of printing elements that performs printing with a plurality of types of printing agents. Otsuka (US 6,682,171 B2) discloses an ink jet head unit capable of performing printing color printing by using a plurality of ink nozzle arrays each for use in printing one line. Kubota et al. (US 6,530,647 B2) disclose a color ink jet head having a plurality of head units each having 1/n of the total number of nozzles predetermined as a maximum number to jet ink of one color in one scanning. Pinkernell (US 6,460,969 B1) discloses a scanning carriage and a plurality of ink jet writing instruments on the carriage for printing on adjacent print media. Teshigawara et al. (US 6,669,331 B2) disclose a print apparatus capable of allowing a reduction in uneven density due to the discharge time difference between black ink and color inks.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


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### Communication With The USPTO

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to K. Feggins whose telephone number is 571-272-2254. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
K. Feggins  
Primary Examiner  
October 29, 2004